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	R PATENT APPLICATION CT International Application		ATTORNEY'S DOCKET NUMBER 247322001700		
As a below named inver	itor we hereby declare that:				
Our residence	, post office address and citiz	enship are as stated below nex	t to our names,		
We believewe		nts inventor of the subject mat	ter which is claimed and	for which a patent is sought on	
SEI	MICONDUCTOR DEVIC	CE AND DRIVING METH	OD THEREOF		
the specification	on of which (check only one	item below):			
is attached hereto.					
×	was filed as United States	application	•		
	Serial No. 09/424,966 on November 30, 1999		•		
×	was filed as PCT internation	onal application			
	Number PCT/JP98/00 on March 9, 1998.	963			
	te that we have reviewed and ny amendment referred to ab		e above-identified specif	ication, including the claims, as	
We acknowled Title 37 Code	lge the duty to disclose infor of Federal Regulations § 1.5	mation which is material to the 6(a) and (b).	e examination of this app	olication in accordance with	
inventor's cert America listed international a	tificate or of any PCT internal below and have also identiful pplication(s) designating at I	under Title 35 United States Contional application(s) designation designation designation application application are country other than the hat of the application(s) of whith	ng at least one country or ion(s) for patent or inver United States of American	ther than the United States of ntor's certificate or any PCT	
PRIOR FOREIGN/PC	T APPLICATION(S) AND	ANY PRIORITY CLAIMS	UNDER 35 U.S.C. § 1	19:	
	OUNTRY ndicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. § 119	
Japan		No. 9-142575	30, 05, 1997	¥ YES □ NO	
				□ YES □ NO	
-				, YES NO	
				☐ YES ☐ NO	
				☐ YES ☐ NO	

Declaration for Patent Application (Continued)					ATTORNEY'S DOCKET NUMBER						
(Includes Reference to PCT International Applications)							247322001700				
	designation not disclose acknowled	g the United sed in that/tho lge the duty t	States of Ameri ose prior applica o disclose mate	ca that is/are ation(s) in the rial informati	listed l manne on as c	pelow and, insofar as or provided by the fi	s the subject m rst paragraph of Code of Federa	natter of each of Title 35, Il Regulation	s) or PCT internation the of the claims of the United States Code, ns, § 1.56(a) which ion:	nis application is , § 112, I	
	OR U.S. APP DER 35 U.S.C		S OR PCT IN	TERNATIO	NAL A	APPLICATIONS D	ESIGNATIN	G THE U	S. FOR BENEFIT		
	·	Ţ	J.S. APPLICAT	TIONS			STATUS (Check one)				
	U S APPLICATION NUMBER		U S FILING DATE		PATENTED		PENDING	ABANDONED			
			TIONS DESIG					STA	TUS (Check one)	US (Check one)	
PC	PCT APPLICATION NUMBER PCT FILM		NG DATE	DATE U S SERIAL NUMBERS ASSIGNED (if any)		PATENTED		PENDING	ABANDONED		
											
					<u> </u>						
Send	Send correspondence to: Thomas E. Ciotti Morrison & Foerster LLP 755 Page Mill Road Palo Alto, California 94304-1018						Di	Direct telephone calls to: Thomas E. Ciotti at (650) 813-5702			
201			FIRST GIVEN NAME Akihide	SECOND GIVEN		OND GIVEN NAME	NAME				
	RESIDENCE & CITY CITIZENSHIP Nara-shi			STATE OR FOREIGN COI Nara Japan CITY	COUNTRY OF CITIZENSHIP Japan STATE & ZIP CODE/COUNTRY						
	ADDRESS 104-B203, Misasagi-cho			Nara-shi	Nara 631-0803 Japan						
202	102 FULL NAME OF INVENTOR I WATA RESIDENCE & CTTY			FIRST GIVEN NAME HITOSHI STATE OR FOREIGN COUNTRY COUNTRY OF CITIZENSHIP							
	POST OFFICE ADDRESS ADDRESS POST OFFICE ADDRESS 2-4-13, Shigigaoka, Sango-cho			Nara Japan CITY Ikoma-gun		STA	Japan STATE & ZIP CODE/COUNTRY Nara 636-0813 Japan				
We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.											
		C. Shiba	tu		of inver						
January 18, 2000 January 18, 2000						•					





ASSIGNMENT JOINT



THIS ASSIGNMENT, by Akihide SHIBATA and Hiroshi IWATA (hereinafter referred to as the assignors), residing at 104-B203, Misasagi-cho, Nara-shi, Nara 631-0803, JAPAN and 2-4-13, Shigigaoka, Sango-cho, Ikoma-gun, Nara 636-0813 JAPAN, respectively, witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in **SEMICONDUCTOR DEVICE AND DRIVING METHOD THEREOF**, set forth in the 35 U.S.C. § 371 application of International Patent Application bearing serial number **PCT/JP98/00963** and filed on **09 March 1998**; and

WHEREAS, Sharp Kabushiki Kaisha, a Japanese corporation duly organized under and pursuant to the laws of Japan and having its principal place of business at 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 JAPAN (hereinafter referred to as the assignee) is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

January 18, 2000 Co Rihide Shiketa	
Date Akihide SHIBATA	
January 18, 2000 Date Hiroshi IWATA	
Date Hiroshi IWATA	

CERTIFICATE UNDER 37 C.F.R. § 3.73(b)			Docket No. 247322001700				
In the application of: Serial No.: International Application No.: International Filing Date:		Application No.:	Akihide SHIBATA and Hiroshi IWATA 09/424,966 PCT/JP98/00963 09 MARCH 1998				
For:		Timig Date.	SEMICONDUCTOR DEVICE AND DRIVING METHOD THEREOF				
SHA	ARP KA			assignee of the entire right, title and interest in			
A.	×	An assignment from the inventor(s) of the patent application identified above. A copy thereof is attached.					
OI	R						
B.		A chain of title from the inventor(s) of the patent application identified above, to the current assignee as shown below:					
54	1.	From: To: The document was recorded in the Patent and Trademark Office at Reel, Frame, or for which a copy thereof is attached.					
	2.	From: To: The document wa attached.	s recorded in the Patent and Trademark Office	at Reel, Frame, or for which a copy thereof is			
	3.	From: To: The document wa attached.	s recorded in the Patent and Trademark Office	at Reel, Frame, or for which a copy thereof is			
		Additional docum	ents in the chain of title are listed on a supplement	nental sheet.			
	☐ Copies of assignments or other documents in the chain of title are attached.						
	_		I the documents in the chain of title of the pate belief, title is in the assignee identified above.	ent application identified above and, to the best			
The	undersig	gned (whose title is s	upplied below) is empowered to sign this certi-	ficate on behalf of the assignee.			
and and	belief ar	e believed to be true so made, are punisha	; and further, that these statements are made w	e, and that all statements made on information ith the knowledge that willful false statements, ection 1001, Title 18 of the United States Code, tion or any patent issuing thereon.			
Date	ed: Feb	oruary 8, 2000		Alsaenter			
			Name Title:	: Haruyasu SASAKI Group General Manager			
			Title.	Intellectual Property Group			